

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/380,377ADATE: 06/08/2000
TIME: 08:10:46

Input Set: I380377A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: BULLEID, NEIL J
2 <120> TITLE OF INVENTION: PROCOLLAGEN ASSEMBLY
3 <130> FILE REFERENCE: 39-189
4 <140> CURRENT APPLICATION NUMBER: US/09/380,377A
5 <141> CURRENT FILING DATE: 1999-09-16
6 <150> EARLIER APPLICATION NUMBER: 9704305.3
7 <151> EARLIER FILING DATE: 1997-03-01
8 <160> NUMBER OF SEQ ID NOS: 18
9 <170> SOFTWARE: PatentIn Ver. 2.0
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11 <211> LENGTH: 23
12 <212> TYPE: PRT
13 <213> ORGANISM: Homo sapiens
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17 Leu Arg Leu Met Ser Thr Glu
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21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
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29 <211> LENGTH: 23
30 <212> TYPE: PRT
31 <213> ORGANISM: Homo sapiens
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38 <211> LENGTH: 23
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapiens
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44 Leu Arg Leu Leu Ser Ser Arg

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PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/380,377ADATE: 06/08/2000
TIME: 08:10:46

Input Set: I380377A.RAW

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47 <211> LENGTH: 22
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49 <213> ORGANISM: Homo sapiens
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55 <210> SEQ ID NO 6
56 <211> LENGTH: 22
57 <212> TYPE: PRT
58 <213> ORGANISM: Homo sapiens
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62 Arg Leu Leu Ser Lys Glu
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65 <211> LENGTH: 22
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67 <213> ORGANISM: Homo sapiens
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71 Lys Leu Leu Thr Ala Ser
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73 <210> SEQ ID NO 8
74 <211> LENGTH: 22
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
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85 <213> ORGANISM: Artificial Sequence
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92 <211> LENGTH: 32
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence

PAGE: 3

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/380,377A

DATE: 06/08/2000

TIME: 08:10:46

Input Set: I380377A.RAW

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113 <220> FEATURE:
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132 20
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PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/380,377A

 DATE: 06/08/2000
 TIME: 08:10:46

Input Set: I380377A.RAW

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|------|------------|---|-----|-----|-----|
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| | 162 | Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg | | | |
| | 163 | 20 | 25 | 30 | |
| | 164 | Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu | | | |
| | 165 | 35 | 40 | 45 | |
| | 166 | Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro | | | |
| | 167 | 50 | 55 | 60 | |
| | 168 | Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu | | | |
| | 169 | 65 | 70 | 75 | 80 |
| | 170 | Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys | | | |
| | 171 | 85 | 90 | 95 | |
| | 172 | Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe | | | |
| | 173 | 100 | 105 | 110 | |
| | 174 | Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly | | | |
| | 175 | 115 | 120 | 125 | |
| | 176 | Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met | | | |
| | 177 | 130 | 135 | 140 | |
| | 178 | Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val | | | |
| | 179 | 145 | 150 | 155 | 160 |
| | 180 | Ala Tyr Met Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu | | | |
| | 181 | 165 | 170 | 175 | |
| | 182 | Lys Gly Ser Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe | | | |
| | 183 | 180 | 185 | 190 | |
| | 184 | Thr Tyr Ser Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp | | | |
| | 185 | 195 | 200 | 205 | |
| | 186 | Gly Lys Thr Val Ile Glu Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro | | | |
| | 187 | 210 | 215 | 220 | |
| | 188 | Ile Ile Asp Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe | | | |
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| | 190 | Gly Phe Asp Val Gly Pro Val Cys Phe Leu | | | |
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| | 194 | <212> TYPE: PRT | | | |

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/380,377ADATE: 06/08/2000
TIME: 08:10:46

Input Set: I380377A.RAW

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199 Asp Tyr Glu Val Asp Ala Thr Leu Lys Ser Leu Asn Asn Gln Ile Glu
200 20 25 30
201 Thr Leu Leu Thr Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys
202 35 40 45
203 Arg Asp Leu Arg Leu Ser His Pro Glu Trp Ser Ser Gly Tyr Tyr Trp
204 50 55 60
205 Ile Asp Pro Asn Gln Gly Cys Thr Met Glu Ala Ile Lys Val Tyr Cys
206 65 70 75 80
207 Asp Phe Pro Thr Gly Glu Thr Cys Ile Arg Ala Gln Pro Glu Asn Ile
208 85 90 95
209 Pro Ala Lys Asn Trp Tyr Arg Ser Ser Lys Asp Lys Lys His Val Trp
210 100 105 110
211 Leu Gly Glu Thr Ile Asn Ala Gly Ser Gln Phe Glu Tyr Asn Val Glu
212 115 120 125
213 Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe Met Arg Leu
214 130 135 140
215 Leu Ala Asn Tyr Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser
216 145 150 155 160
217 Ile Ala Tyr Met Asp Glu Glu Thr Gly Asn Leu Lys Lys Ala Val Ile
218 165 170 175
219 Leu Gln Gly Ser Asn Asp Val Glu Leu Val Ala Glu Gly Asn Ser Arg
220 180 185 190
221 Phe Thr Tyr Thr Val Leu Val Asp Gly Cys Ser Lys Lys Thr Asn Glu
222 195 200 205
223 Trp Gly Lys Thr Ile Ile Glu Tyr Lys Thr Asn Lys Pro Ser Arg Leu
224 210 215 220
225 Pro Phe Leu Asp Ile Ala Pro Leu Asp Ile Gly Gly Ala Asp His Glu
226 225 230 235 240
227 Phe Phe Val Asp Ile Gly Pro Val Cys Phe Lys
228 245 250
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230 <211> LENGTH: 248
231 <212> TYPE: PRT
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236 Met Thr Ser Leu Lys Ser Val Asn Gly Gln Ile Glu Ser Leu Ile Ser
237 20 25 30
238 Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg Asn Cys Arg Asp Leu Lys
239 35 40 45
240 Phe Cys His Pro Glu Leu Lys Ser Gly Glu Tyr Trp Val Asp Pro Asn
241 50 55 60
242 Gln Gly Cys Lys Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu Thr
243 65 70 75 80
244 Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu Asn Val Pro Arg Lys His

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/380,377A

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| Line | ? Error/Warning | Original Text |
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| 131 | W "N" or "Xaa" used: Feature required | Xaa Xaa Ser Ser Arg |
| 144 | W "N" or "Xaa" used: Feature required | Gly Asn Pro Glu Leu Pro Glu Asp Val Leu A |
| 146 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Ser Ser Arg |